

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

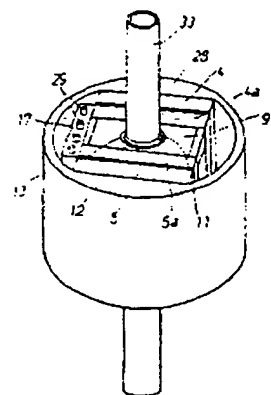
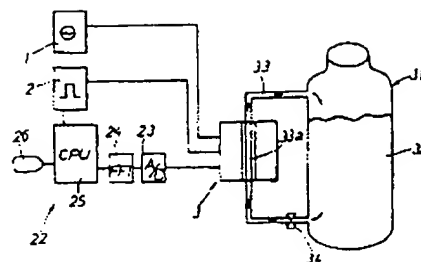
PUBLICATION NUMBER : JP2001580
 PUBLICATION DATE : 05-01-90
 APPLICATION NUMBER : JP880037063
 APPLICATION DATE : 18-02-88

VOL: 14 NO: 136 (P - 1021)
 AB. DATE : 14-03-1990 PAT: A 2001580
 PATENTEE : KOBE STEEL LTD
 PATENT DATE: 05-01-1990

INVENTOR : YASUKUNI HIROAKI; others: 03

INT. CL. : G01R33/30

TITLE : NMR ANALYZING DEVICE



ABSTRACT : PURPOSE: To continuously monitor a chemical reaction on-line by placing a pair of magnets so as to be opposed to each other by placing a spacer between them, and fitting a coil bobbin in which a transmitting coil and a receiving coil have been installed, into a through-hole of this spacer.
CONSTITUTION: The title device is provided with a spacer 9 having a through-hole 11 for forming a local space 10. A pair of magnets are placed so as to be opposed to each other by placing this spacer 9 between them. Tubular coil bobbins 12, 13 in which a transmitting coil 6 and a receiving coil 7 have been installed are fitted into the through-hole 11 of this spacer 9. In this state, a reactant 32 in a chemical reaction container 31 is allowed to flow to a local space 10 in the coil bobbins 12, 13. By a component variation of its reactant 32, a receiving signal of the receiving coil 7 is varied. By detecting this receiving signal by a signal processing part 22 and bringing it to Fourier-transformation, the component variation of the reactant 32 is monitored on-line.

BEST AVAILABLE COPY